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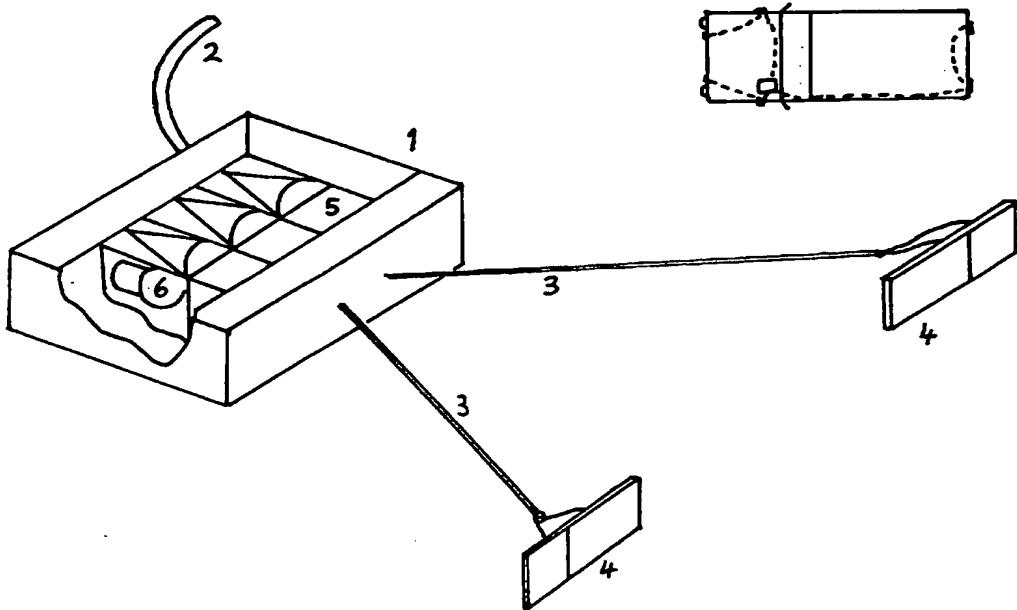
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(72) Inventor(s) Justin Campbell Lesbirel	(58) Field of Search UK CL (Edition P) F4R RCB RE RL RMP INT CL ⁶ B60Q 1/00 1/22 1/24 , F21Q 1/00
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(54) Abstract Title
Vehicle lamp illuminated by a remote light source via fibre optic cables

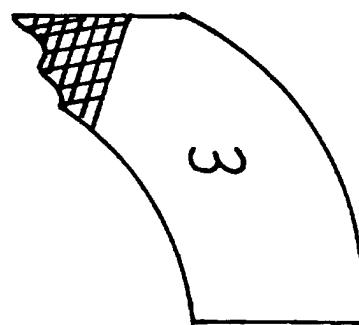
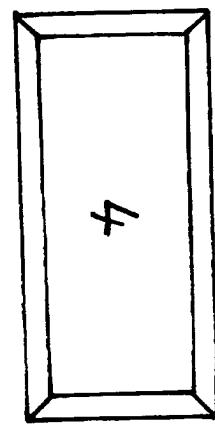
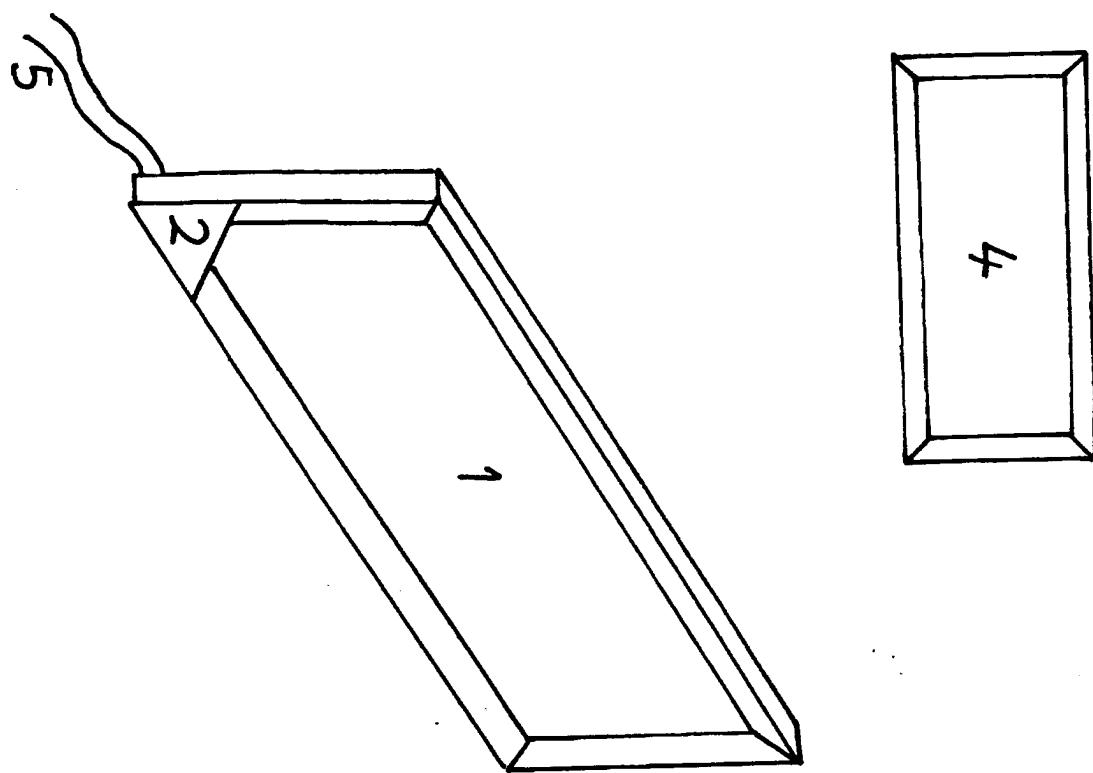
(57) A lamp for a vehicle comprises a light source powered by 12V, a fibre optic cable and an illuminated plate. The light source is situated remote from the illuminated plate and connected thereto by the fibre optic cable. The fibre optic cable is joined to the illumination plate via a fibre optic lens which spreads the light evenly across the plate. The plate is composed of a back part which is reflective and a front lens part.



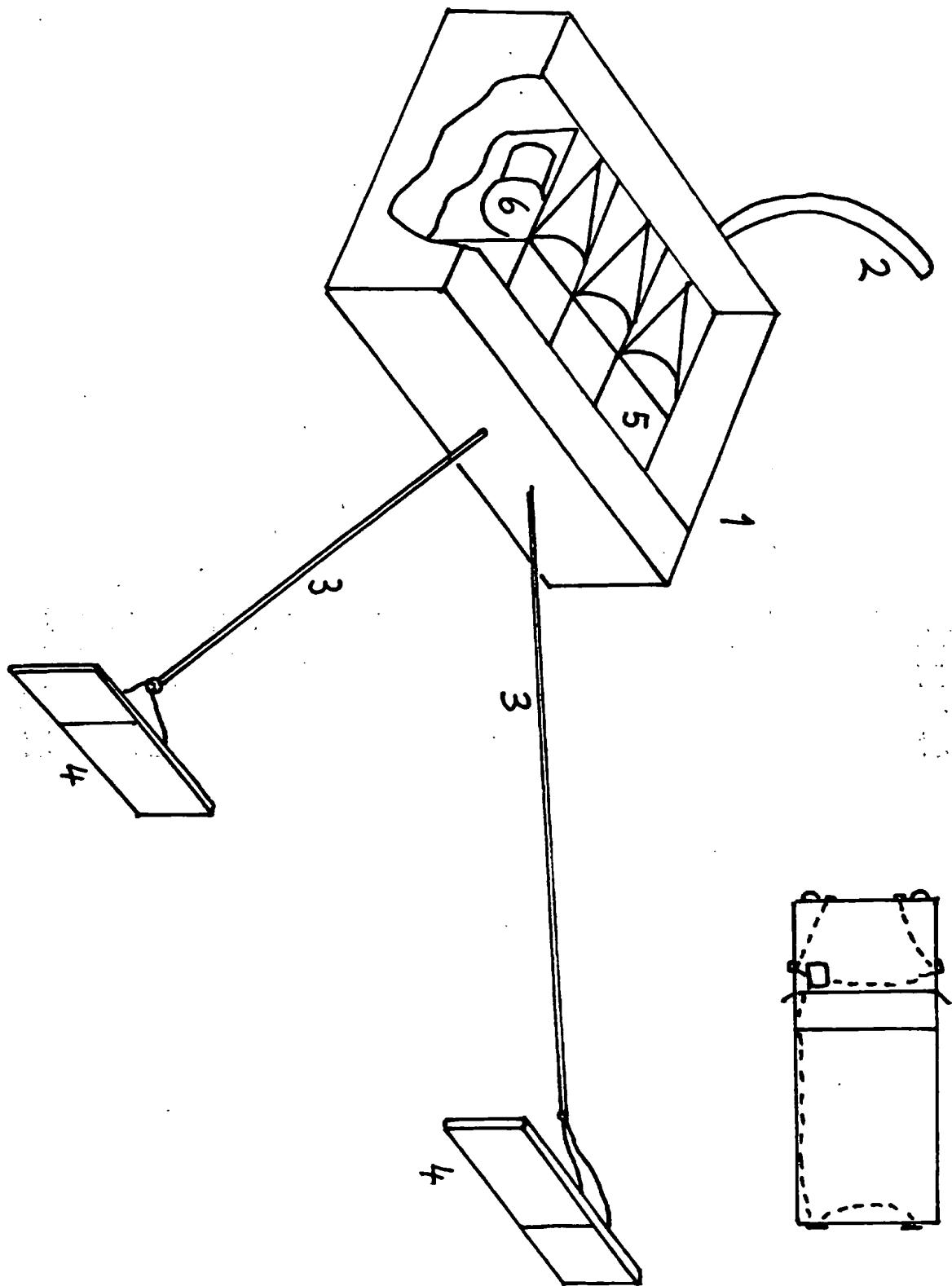
GB 2 333 830 A

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The claims were filed later than the filing date within the period prescribed by Rule 25(1) of the Patents Rules 1995
At least one of these pages has been prepared from an original which was unsuitable for direct photoreproduction.

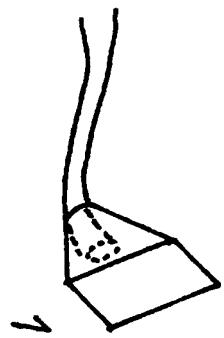
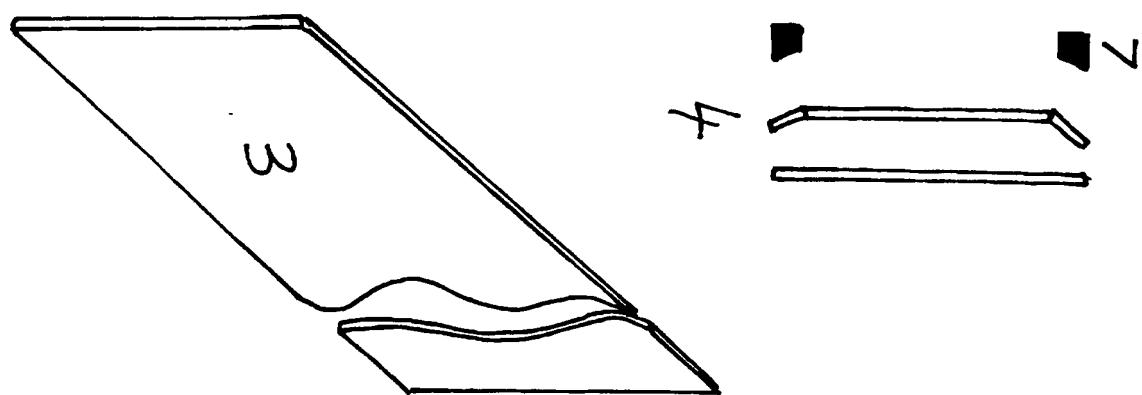
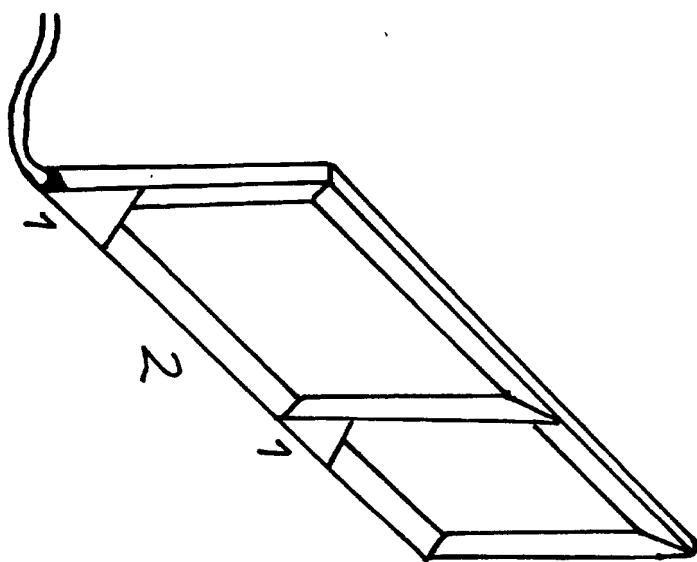
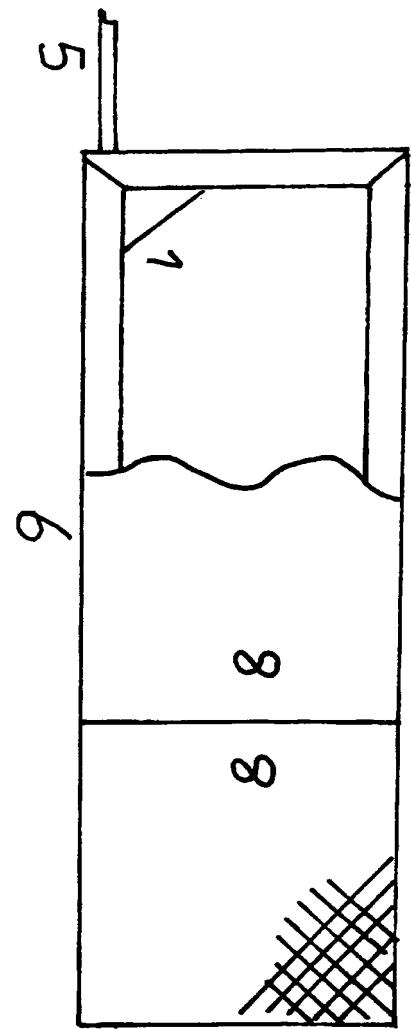
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Unbreakable Light Unit

A flexible light unit and unbreakable for trucks, cars and suitable for tube trains and aircraft lighting.

The fitting light weight and would use no conventional light bulbs, the light provided would be from a controlled unit supplying the fibre optic cables which supply the flexible light unit with light. If used for trucks or cars the brake light unit will have 4/5 light bulbs in the control unit, which enables one to change easy. This means if a truck or car bumps a wall, you will not break the indicator or light housing, because it is fed with fibre optic cables.

Therefore being nothing to smash, the unit being flexible could be moulded to any shape. Water would not cause faults, as with the conventional light if broken or cracked.

KEY

THE UNBREAKABLE LIGHT
UNIT

1/3

- 1 BACK OF UNIT IS Sprayed in mirror Paint and is also FLEXIBLE
- 2 Lense unit magnifier for fibre optic
- 3 Lense unit cover for fitting is made up of reflect prisms & plastic which is unbreakable.
- 4 The Back of the unbreakable light has forty five degree angles to reflect light off the fitting around the edge.
- 5 Fibre optic cables that plug in to the back of the unit.

2/3

- 1 The control unit Housing Relays & Light source. Hole fitting water tight.
- 2 Control cables & supply for unit which will be 12 volt.
- 3 Fibre optic cables that plug in to the control unit & also in to the unbreakable light unit to supply the light to it.
- 4 unbreakable light unit
- 5 Relays for controlling each lamp when called for.
- 6 Lamps which fire light down fibre optic cable.

KEY

THE UNBREAKABLE LIGHT
UNIT

3/3

- 1 Fibre optic lens magnifier unit fitted into each compartment of the unbreakable light unit.
- 2 Unbreakable light unit split into two compartments one for Break lights & one for indicator.
- 3 Front lens which is stuck to rest of the fitting totally water tight.
- 4 The unbreakable light is made up like a sandwich & is totally flexible in any way.
- 5 Fibre optic cables pass through a core in the rubber seal at the bottom of the fitting & then plug into each compartment.
- 6 Unbreakable light.
- 7 Rubber seal right round the fitting
- 8 Lens for front of fitting is curved differently for each compartment.

CLAIMS

The unbreakable unit is made up of 5 components. The light supplied to the fittings will be from a controlled unit with the light source, which will send this through the fibre optic cables to the unbreakable light unit, which is made up of a reflective back plate. Glued to the front of this plate would be coloured lens. These 2 components will be made up of a thin flexible plastic. Sealed between this unit will be a fibre optic lens to spread the light across the face of the fitting. The whole unit will be light weight water resistant, only needing 12 volt supply.



The
Patent
Office

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Application No: GB 9802198.3
Claims searched: 1

Examiner: Jason Scott
Date of search: 6 May 1998

Patents Act 1977
Search Report under Section 17

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK Cl (Ed.P): F4R (RCB, RL, RE, RMP)

Int Cl (Ed.6): B60Q (1/00, 1/22, 1/24); F21Q (1/00)

Other:

Documents considered to be relevant:

Category	Identity of document and relevant passage		Relevant to claims
X	GB 2274159 A	FORD See page 1, line 37 to page 2, line 9 & page 3, lines 11-12.	1
X	GB 2245052 A	GENERAL ELECTRIC See page 3, line 23 to page 4, line 4.	1
X	GB 2066444 A	CIBIE See lines 106-123	1
X	US 5434754	FORD See column 4, lines 41-49.	1
X	US 5278731	GENERAL ELECTRIC See column 2, lines 15-23 and figure 1.	1

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art.
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	& Member of the same patent family		E Patent document published on or after, but with priority date earlier than, the filing date of this application.

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